

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P250059

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100840 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10040.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

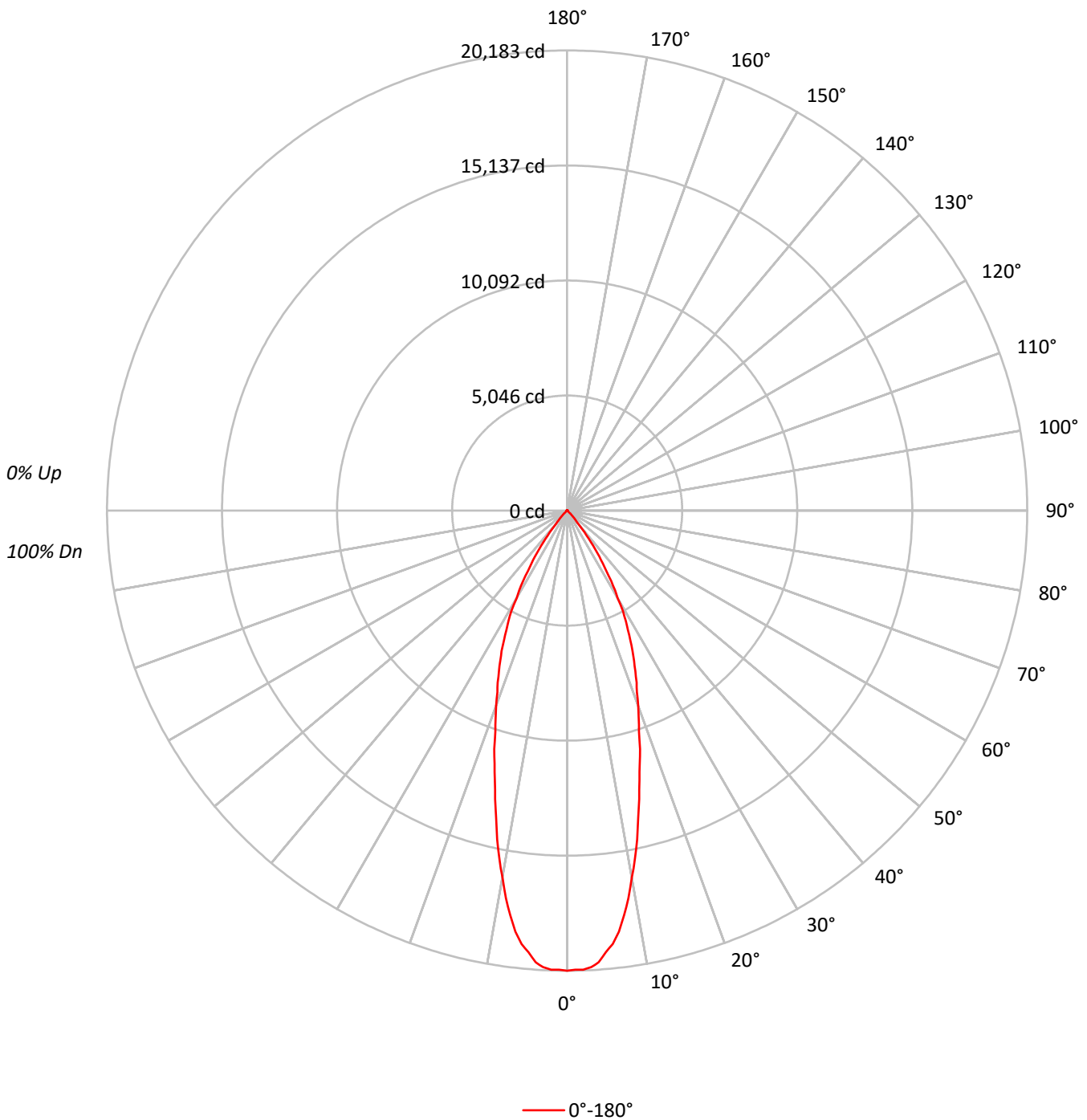
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	622363
5°	601859
10°	511845
15°	390662
20°	298564
25°	231364
30°	157798
35°	92710
40°	28347
45°	11151
50°	168
55°	188
60°	216
65°	511
70°	947
75°	834
80°	622
85°	3715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1762.7	17.6
10°-20°	3415.7	34.0
20°-30°	3075.2	30.6
30°-40°	1521.5	15.2
40°-50°	231.4	2.3
50°-60°	9.5	0.1
60°-70°	12.2	0.1
70°-80°	4.6	0.0
80°-90°	7.2	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8253.6	82.2
0°-40°	9775.0	97.4
0°-60°	10016.0	99.8
0°-90°	10040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10040.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20183	
5°	19444	###
15°	12237	3416
25°	6800	3075
35°	2463	1521
45°	256	231
55°	4	10
65°	7	12
75°	7	5
85°	10	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	20182.8
1°	20140.8
2°	20151.2
3°	20049.6
4°	19864.0
5°	19443.6
6°	19121.3
7°	18609.9
8°	17923.2
9°	17208.4
10°	16346.6
11°	15575.9
12°	14749.2
13°	13834.7
14°	13046.5
15°	12237.2
16°	11547.0
17°	10937.5
18°	10187.7
19°	9637.6
20°	9098.3
21°	8537.6
22°	8127.8
23°	7651.3
24°	7213.3
25°	6800.0
26°	6313.0
27°	5875.2
28°	5482.7
29°	5051.8
30°	4431.7
31°	4081.5
32°	3640.0
33°	3156.5
34°	2788.6
35°	2462.8
37.5°	1558.9
40°	704.2
42.5°	480.0
45°	255.7
47.5°	143.6
50°	3.5
52.5°	14.1
55°	3.5
57.5°	21.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	3.5
62.5°	17.6
65°	7.0
67.5°	17.6
70°	10.5
72.5°	3.5
75°	7.0
77.5°	0.0
80°	3.5
82.5°	14.1
85°	10.5
87.5°	0.0
90°	0.0

(END OF REPORT)